

03050207-030

(*Salkehatchie River*)

General Description

Watershed 03050207-030 is located in Barnwell, Bamberg, and Allendale Counties and consists primarily of the *Salkehatchie River* and its tributaries from Turkey Creek to Well Branch. The watershed occupies 100,798 acres of the Upper and Lower Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Fuquay-Dothan-Troup-Blanton series. The erodibility of the soil (K) averages 0.15, and the slope of the terrain averages 4%, with a range of 1-10%. Land use/land cover in the watershed includes: 41.7% agricultural land, 35.2% forested land, 14.9% forested wetland, 7.0% barren land, 0.5% urban land, 0.4% nonforested wetland, and 0.3% water.

This section of the Salkehatchie River accepts drainage from its upstream reach (03050207-010), together with Pen Branch (Fuller Pond), Hurricane Creek (Riley Mill Branch), Toby Creek (Jordan Branch), Parker Branch, Hercules Creek, Georges Creek (Juniper Creek), Birds Branch (Horsepen Bay, Chitty Pond), and Wells Branch. There are a total of 134.0 stream miles and 476.4 acres of lake waters in this watershed, all classified FW. Barnwell State Park resides near the top of the watershed just south of the Town of Blackville.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CSTL-003	P	FW	SALKEHATCHIE RIVER AT SC 278, 2.5MI S OF BARNWELL
CSTL-577	BIO	FW	TOBY CREEK AT S-06-29
CSTL-579	BIO	FW	BIRDS BRANCH AT S-05-567

Salkehatchie River (CSTL-003) – Aquatic life uses are fully supported. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand, total phosphorus, and total nitrogen concentrations suggest improving conditions for these parameters. Recreational uses are partially supported due to fecal coliform bacteria excursions; however, a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

Toby Creek (CSTL-577) – Aquatic life uses are fully supported based on macroinvertebrate community data.

Birds Branch (CSTL-579) - Aquatic life uses are fully supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM

FACILITY NAME

PERMITTED FLOW @ PIPE (MGD)

NPDES#

TYPE

COMMENT

SALKEHATCHIE RIVER

CITY OF BARNWELL WWTP

PIPE #: 001 FLOW: 3.0

SC0047872

MAJOR DOMESTIC

Growth Potential

There is a low potential to moderate for growth in this watershed, which contains the Town of Olar and portions of the City of Barnwell and the Towns of Blackville, Hilda, Govan, and Kline. U.S. Hwy 278 is projected to be widened and could support commerce, and perhaps industry in the Williston and Blackville areas. The existing rail lines running through the Town of Blackville, could also encourage industrial growth.